

AMENDED PATENT CLAIMS

1 1. (original) A system for preventing accidents in the
2 operation of machine or apparatus (56), with:

3 at least one user end device or terminal (2)
4 with an output unit (10) for the transmission of authorizing user
5 data signals through the body of a user, and

6 at least one signal receiver (28) assigned to
7 the monitored apparatus or machine (56) having an interface unit
8 (30) for receiving signals transmitted through the body of the
9 user, unit (36-40, 44-48) for checking the received user data
10 dealing with authorization and units (42, 50, 54) for outputting a
11 clearance signal that allows an operation of the at least one
12 machine or apparatus (56) after a successful test of the received
13 authorizing user data, whereby

14 the signal receiver (28) is equipped and
15 programmed to terminate the output of the clearance signal follow-
16 ing a successful test of the authorization data, when subsequent
17 tests of the authorization data fail.

1 2. (original) The system according to claim 1 wherein
2 the output unit (10) of the user end device or terminal (2) com-
3 prises a coupling unit (4) for the inductive and/or capacitive
4 coupling of the authorizing user data signal into the body of the
5 user.

1 3. (currently amended) The system according to claim 1
2 ~~or claim 2~~ in which the output unit (10) of the user end device or
3 terminal (2) has a contact region (6) for direct coupling of the
4 authorizing user data signal into the body of the user and/or a
5 signal output (8) for transmitting the signals comprising the
6 authorization user data to a device directly connected with the
7 body of the first user.

8 4. (currently amended) The system according to ~~one of~~
9 ~~the preceding claims~~ claim 1 in which the user end device or
10 terminal (2) is equipped and programmed to transmit signals which
11 comprise a code giving authorization to the user and control
12 commands for controlling the signal receiver (28).

1 5. (currently amended) The system according to ~~one of~~
2 ~~the preceding claims~~ claim 1 in which the interface unit (30) of
3 the signal receiver (28) comprises a contact sensitive unit which
4 receives the signals from the user end device or terminal (2) upon
5 contact of the contact sensitive unit with the user.

1 6. (currently amended) The system according to ~~one of~~
2 ~~the preceding claims~~ claim 1 in which the interface (30) of the
3 signal receiver (28) has an inductive and/or capacitive unit for
4 receiving the signals of the user end device or terminal (2) by
5 means of inductive and/or capacitive signal transmission.

6 7. (currently amended) The system according to ~~one of~~
7 ~~the preceding claims~~ claim 1 in which the unit (36-40, 44-48) of
8 the signal receiver (28) or testing the authorizing data, comprise
9 a correspondence register (46) with at least two storage or memory
10 location or data or testing the authorizing data.

1 8. (currently amended) The system according to ~~one of~~
2 ~~the preceding claims~~ claim 1 in which the signal receiver (28) is
3 equipped and programmed depending upon the received signal from the
4 user end device or terminal (2) to access data for testing the data
5 to serve as authorization data.

1 9. (currently amended) The system according to ~~one of~~
2 ~~the preceding claims~~ claim 1 in which at least one user end device
3 (2) is arranged in or on protective clothing.

1 10. (currently amended) A user end device or terminal
2 (2) for use with the system according to ~~one of the preceding~~
3 ~~claims~~ claim 1 with an output unit (10) for transmitting authoriz-
4 ing data signals through this body of a user.

1 11. (original) A user end device or terminal (2)
2 according to claim 10 with the features according to one of claims
3 2 - 4.

1 12. (currently amended) A user end device or terminal
2 (2) according to ~~claims 10 or 11~~ claim 10, for arrangement on or in
3 protective clothing.

4 13. (currently amended) A signal receiver (28) for use
5 with the system according to ~~one of claims 1 - 9~~ claim 1 with:

6 an interface (30) for receiving through a body
7 of a user signals comprising authorization data and transmitted
8 through the body of the user,

9 units (36-40, 44-48) for testing the received
10 authorizing data, and

11 units (42, 50, 54) for producing a clearance
12 signal upon a successful test of the authorizing data, whereby the
13 signal receiver (28) is equipped and programmed to terminate the
14 clearance signal outputted as a result of a successful test of the
15 authorizing data when subsequent tests of the authorizing data
16 fail.

1 14. (original) The signal receiver (28) according to
2 claim 13 with the features according to one of claims 5 - 9.

3 15. (currently amended) Protective clothing, like for
4 example a protective helmet, protective glasses or goggles, safety
5 shoes and the like with the user end device or terminal (2) accord-
6 ing to ~~one of claims 10 -~~ claim 10.

7 16. (currently amended) A device or apparatus like a
8 household appliance, electric and mechanical tool, machine tool or
9 the like with the signal receiver (28) according to ~~claims 13 or 14~~
10 claim 13.

1 17. (original) A hand grip device with a hand grip
2 based body including a hand grip outer surface (7) which is engaged
3 by an inner surface of the hand and has a segment forming a hand
4 rest for the inner surface, whereby in the region of the hand inner
5 surface rest at least one pressure sensitive zone (8) is formed for
6 generating a signal indicating the hand grip gripping state.

1 18. (original) The hand grip arrangement of claim 17,
2 characterized in that it includes a plurality of pressure sensitive
3 zones (8).

1 19. (currently amended) The hand grip device according
2 to ~~claims 17 or 18~~ claim 17 characterized in that the pressure
3 sensitive zone forms part of a fluid chamber system (9).

1 20. (currently amended) The hand grip device according
2 to ~~at least one of claims 17 - 19~~ claim 17, characterized in that
3 the pressure sensitive zone is formed by an elastically deformable
4 pressure chamber wall.

1 21. (currently amended) The hand grip device according
2 to ~~at least one of claims 17~~ ~~20~~ claim 17, characterized in that
3 the pressure chamber is filled with a liquid, gel or gas.

4 22. (currently amended) The hand grip device according
5 to ~~at least one of claims 17~~ ~~21~~ claim 17, characterized in that
6 the pressure chamber is coupled with a switch device.

1 23. (currently amended) The hand grip device according
2 to ~~at least one of claims 17~~ ~~22~~ claim 17, characterized in that
3 the pressure chamber is coupled with a pressure measurement device.

1 24. (currently amended) The hand grip device according
2 to ~~at least one of claims 17~~ ~~23~~ claim 17, characterized in that
3 the hand grip device in the region of the hand inner surface rest
4 has pressure sensitive zones in the hand ball rest region and a
5 finger inner surface rest region.

1 25. (currently amended) The hand grip device according
2 to ~~at least one of claims 17~~ ~~24~~ claim 17, characterized in that
3 in the region of the hand grip device a plurality of individual
4 finger inner surface pressure sensitive zones are provided.

1 26. (currently amended) The hand grip device according
2 to ~~at least one of claims 17~~ ~~25~~ claim 17, characterized in that

3 in the region of the hand grip device an orientation detecting
4 device is provided.

5 27. (currently amended) The hand grip device according
6 to ~~at least one of claims 17 - 26~~ claim 17, characterized in that
7 the hand grip device is a hand grip of a drill.

1 28. (currently amended) The hand grip device according
2 to ~~at least one of claims 17 - 27~~ claim 17 in which a signal
3 transmitting device is coupled a signal to the user.

1 29. (original) The hand grip device according to claim
2 28 characterized in that the signal transmitter device is so
3 configured that it effects a signal coupling on the basis of
4 electrostatic interaction.

1 30. (currently amended) The hand grip device according
2 to ~~at least one of claims 17 - 29~~ claim 17, characterized in that
3 in the hand grip device a signal modulating device is provided for
4 the modulation of the signal imitated by the coupling device.

1 31. (currently amended) The hand grip device according
2 to ~~at least one of claims 17 - 30~~ claim 17, characterized in that
3 the signal is so modulated that it contains a dated telegram.

1 32. (original) A power driven tool with a housing
2 device, a first hand grip device (105), a second hand grip device
3 and a device for detecting the gripping state for producing a
4 signal indicating the gripping state of the device.